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CHAPTER 14 COORDINATION AND RESPONSE

CHAPTER 14.1 Nervous control in humans

1. Fig. 1.1 shows a reflex arc involving a finger and a muscle in arm. After touching the sharp pin, the arm produces a response.

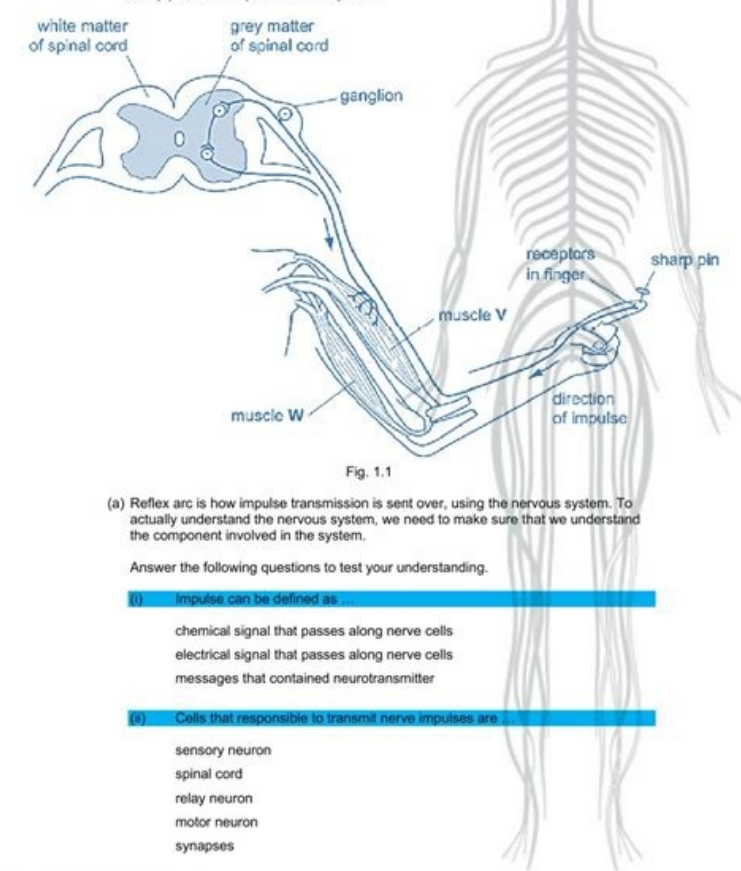


Fig. 1.1

(a) Reflex arc is how impulse transmission is sent over, using the nervous system. To actually understand the nervous system, we need to make sure that we understand the component involved in the system.

Answer the following questions to test your understanding.

- 1. Name the following: (a) chemical signal that passes along nerve cells (b) electrical signal that passes along nerve cells (c) cells that communicate by means of nerve impulses (d) sensory neuron (e) spinal cord (f) relay neuron (g) motor neuron (h) synapse

LIVEWORKSHEETS



This comb has acquired a static electric charge, either from passing through hair, or being rubbed by a cloth or paper towel. The electrical charge on the comb induces a polarization (separation of charge) in scraps of paper, and thus attracts them.

Our introduction to electricity in this Chapter covers conductors and insulators, and Coulomb's law which relates the force between two point charges as a function of their distance apart. We also introduce the powerful concept of electric field.

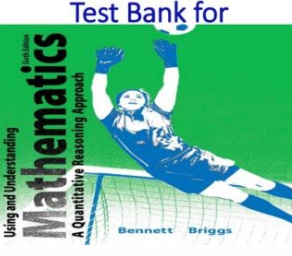
CHAPTER 16

Electric Charge and Electric Field

The word "electricity" may evoke an image of complex modern technology: lights, motors, electronics, and computers. But the electric force is thought to play an even deeper role in our lives. According to atomic theory, electric forces between atoms and molecules hold them together to form liquids and solids, and electric forces are also involved in the metabolic processes that occur within our bodies. Many of the forces we have dealt with so far, such as elastic forces, the normal force, and friction and other contact forces (pushes and pulls), are now considered to result from electric forces acting at the atomic level. Gravity, on the other hand, is a separate force.

The earliest studies on electricity date back to the ancients, but it has been only in the past two centuries that electricity was studied in detail. We will discuss the development of ideas about electricity, including practical devices, as well as the relation to magnetism, in the next seven Chapters.

As we discussed in Section 5-10, physicists in the twentieth century came to recognize four different fundamental forces in nature: (1) gravitational force, (2) electromagnetic force (we will see later that electric and magnetic forces are intimately related), (3) strong nuclear force, and (4) weak nuclear force. The last two forces operate at the level of the nucleus of an atom. Recent theory has combined the electromagnetic and weak nuclear forces as they are now considered to have a common origin known as the electroweak force. We will discuss these forces in later Chapters.



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Table with 4 rows: Human DNA (3.3 x 10^9 bp of nucleotides), Nucleotides (N-glycosidic linkage, Phosphoester linkage), Polynucleotide (Two nucleotides are joined by 3'-5' phosphodiester linkage).

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MY ANXIETY TRIGGERS. A scale from 0 (CALM) to 10 (EXTREMELY ANXIOUS) with a list of triggers and a cartoon character.

God bless you on February 26, 2018. Thank you for sharing. The language you used to explain the difference is very understanding. Human beings use their linguistic resources to produce new expressions and sentences. It is really useful for my psicolinguistic work Mwanakulya on December 15, 2017: Impressivefatna Kipringu on December 10, 2017: thanks so much for the clear expressions on human language and animal communication. I pull on May 24, 2017: your ideas are not updated with recent studies on animal communication and current research on ethology and animal cognition. A very rich article. I learned a lot and I intend to mark a in my Eng403: psicolinguistic exam Insha Allah. Vinith on 02 January 2017: Super n Italized article for students. You will aim on November 30, 2016: thank you very much U ve made your life simple for me. God bless Unonymous on November 22, 2016: thank you very much! Your article really helped my essay. Cooper on November 21, 2016: who is Barnett when he cites "verbal communication is a condition of the existence of the human society." Fikile Mhlaga on November 21, 2016: I Love Itvenance Paul on November 03, 2016: my friend is well done In making linguistics to be good for language students to have a subclaudia Makalichi on 02 October 2016: as an education student was very useful for my assignment. Sumi Seal on September 29, 2016: completely satisfied with the Notaandrew Mumpande on 11 September 2016: as a student of English and communication I learned a lot. Thank you very much. Mulesae on July 27, 2016: your information is very interesting makes my research very successful .. Thanks! Victor Mochama on 05 April 2016: the real as the way the points are developed have actually helped me in my research thanks to all the contributors. Carolyne checone on March 26, 2016: good Really. Irohika on 21 January 2016: Very useful for my assignmentkaren kaunda on 28 November 2015: great information shared here. Here. InellectE:0202,21 hcrM no lasakay atmB! ! ! ! J. J. Thanks for the help Yusuf shitu Aliyu on 09 March 2020: BOOOOOOOOOOOOOOOOOOOOOOOOOO. Each human language has a fixed number of sound units called phonemes. These phonemes are combined to make morphemes, the smallest sound unit that contains meaning. He noted that Nim very rarely spontaneously signed; instead, he would react to signs that his teacher was doing. The following idea shows other disputed examples of when the line between human and animal communication becomes blurred. Bibliography! Kuriakose, K.P. Introduction to Linguistics, 2002, Gayathri Publishers, 7-12 Hockett F Charles, A Course in Modern Linguistics, 1970, The Macmillan Company, 570-580 Sadeeq ullah on August 23, 2020: I have more information from this thanks to a SirOyi Nonkqubela deck on 14 August 2020: Useful information Thank you Sammy Babra Seline on 24 July 2020: Very detailed information. I am now done with my assignmentKUKUNDA BONITAH on 24 October 2017: Great thanks and appreciation for the researchers of these great notes because you adding a greater percentage to our success in life, I appreciate: The Almighty always blesses you, "Thank you very muchsenyi leah on October 24, 2017: the article dz was very useful to me, thanks alot. Achan jennifer on 19 October 2017: Well done frndaddy on September 27, 2017:niceAleena on September 21, 2017: Sixth article is very helpful thanks tolojackson nombo on August 12, 2017: Thanks alot Cha-cha on August 09, 2017: It is not easy to understand, it contains all the points from the definition of language by some language. The verbal and written language can be transmitted to future generations. very predictable human but helps a lotpweety sugar on July 05, 2018: I thought and looked for this same information for my assignment, thank you so much for so vital infoZeenat Nawaz on May 18, 2018: what is the difference in human and animal communication with and discreteness?GOWTHAM on April 27, 2018:thankQBridget on April 26, 2018:thanks so muchMcKenna on March 17, 2018:Thank you so much have been searching for this information and finally I have it in my hands.I love your explanationsRehan rao on March 11, 2018:It is very helpfulMuhammad Nasir on March 01, 2018:thank you so much its help me lot to get more information about english.eirin on February 26, 2018:wonderful job! well done!Phlameflowz ognunake on February 27, 2018:This article is very fantastic, nw am done with my assignment. It has not only helped me but many out there in writing their academic papers.Nyangu Mwanza on May 24, 2017:This has helped me write my assignment,thank you.Carlos R. Animals lack this capacity, helped alojjoyce on October 28, 2015:Am done with my term paper Turning hand gestures into meaning certainly displays arbitrariness. Thus, language has got two levels of patterning that are not present in other animals' communication.CreativityYet another distinctive feature is creativity. Does that mean that other animals can display these properties?It's a matter of debate, thank you so much.mboneko on March 16, 2017:Thank I have got something about language.Anas Muhammad Sani (Aishatanas) on March 08, 2017:I read it with keen interest. Cash is so fundamental to human life that it's hard to imagine what life would be like without it... It cannot produce new signals to communicate novel events or experiences.DisplacementDisplacement: Human language can talk about things that aren't happening here or now. The signs, or words, in language have no inherent connection to what they signify, or mean (that's why one object can have so many names in different languages). Got it and no done my assignment. Each human language uses a number of those sounds. I was much confused before reading it...But thanx alot for this precious information,,,,,, I loved it...Wang'asa David on October 16, 2018:I al emoc augnil anu onnah ilamina ilg es oipmese dat asselpmoc acitammarg al e issatnis al adraugir enoissucsid elautta'L .arutturts o ,gninrettap id .Atilaud emoc atuisconoc " A airampir aznerffid aL .isarf e elorap osrevartta otacifingis eraerc rep idom id otinifni oreum nu ni inouis itseq erettlem onossop inamu یرهse ilg aM .orol id ortned " A ehc "Aic eremirpse id orol ettemrep ehc ocinu oiggaugnil nu onnah inamu یرهse ilg etnematreC :0202 onguig 22 li madA haraSelliim eizarG .opmet orol lad e elautta etneibma orol lad inatnol itteggoo o ihgool ,eiraningammi o ilaer inoizautis id eralrap onossop

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Never shows the communication of an animal These properties? Wait: largely unique to human language? Differences between human language and animal communication. If someone asked you what separates humans from other animals, one of the first things that would probably come to mind is the language. But humans can put these sounds in an infinite number of ways to create meaning through words and phrases. Other animals do not communicate by organizing arbitrary sounds, which limits the number of messages they can create. Creativity New words can be easily invented. Animals must evolve so that their signs change. DisplacementHumans can talk about remote, abstract or imaginary things that are not happening in their immediate environments. Animal communication is context-oriented, reacts to stimuli or indices. Interchangeability Any human race can use the same languages. Some animal communications in the animal world can only be used by such an animal. Humans acquire culturally language—words must be learned. The way animals communicate is biological or innate. The ArbitrarinessHuman language is symbolic, using a number of sounds (photos) and characters (alphabet), which allows you to record and store ideas. Animal communication is not symbolic, so it cannot preserve the ideas of the past. Biology At a purely biological level, the voice box and human language are very unique, and are required to make the sounds we recognize as language. Other animals have different biological structures, which influence the way they make sounds. A word, or sign, can have different meanings. EachIt has only one meaning. The Varietyhuman language can organize words in an infinite number of ideas, sometimes indicated as discreet infinite. Animals have only a limited number of di yllarutlic dna cilobmys htob si egaunal riehT .thguoht ew naht xelpmoc erom si noitacinummoc lamina .noitacinummoc ni elor lativ a yalp osla secnereffid lacigoloiBygoloiB.erutuf eht rof devreserp eb tonnac saedi snaem hcilhw .cilobmys ton si noitacinummoc lamina .egaunal taht fo .tebahpla ro . Slobmys eht netw nettirw Eb osla nac sngis eseht .Etcitra tnelecke:9 syaw tnereffid emos Tnereffid Era Ew Zucb Slamina tsnia flesym tuoba teteretni yrev saws ,9 ma i Ignitseretni s siht:9102 ,41 rebmetpes No Hab ahpatsum udamaem rof uof ,9 Khcum os os os knaht.....LUFREDNOW DNA LUFPLEH yller siht siht:9 .Em ot tnatropmi hcum devorp seton epoht:9102 ,22 rebotco if it is tolerated Rababuoy Fo Tol A SKNAHT:9 yppah yllaer ma l:9102 ,31 rebmevoN no ycsorp HADIAIufpleh dna ecin:9102 ,03 rebmevoN no armaSsknahT.ecinN .gninaem on evah dna yrartibra era .semenoHp dellac ,sdnuos evitcnitsiD :gninrettap fo ytilauDytilauD.ygoloib dna .ssenirartibra ,noissimsnart larutlic .ytilibaegnacretni ,tneckussid .ytivitaerc .yunaugnal namuh ot ot euqinuyu yleral era taht seight seightrepop nemaxe licitra siht ,tsil sht ot dda yam sralohwhptped :secid ilhwhptped Because of this, human language is considered without context, while animal communication is mainly linked to the context. The human language is interchangeable between the sexes. One of the most contested examples is Nim Chimpsky, a chimpanzee called after a well -known linguist Noam Chomsky, who was taught over 100 signs in the language of signs in the 70s. For example, the dance of the bees is performed only by the workers bees, which are feminine. Cultural transmission transmission: human language is culturally transmitted, or taught, which allow them to communicate feelings, intentions, emotions and events or situations present. Cashalyak cash on March 26, 2017: this helped me a lot with my English language exam for the school, thanks ! Annabel Felix on March 22, 2017: this is really useful and wonderful. The test is growing towards an affirmative response on this respect, at least in some particular cases such as prairie dogs, parrots, whales and dolphins. But some communications in the animal world are performed only by a genre. Human beings created in different cultures acquire different languages. His very useful for Racheal Mechelangat on October 30, 2017: my course is made easily Alicia Moke on October 29, 2017: good job. Thank you. Galaxy Mermaid on January 30, 2019: I know usefu! I used it in my school speech! Steve Ndossi on December 12, 2018: I like this explanation because it makes me release more knowledge concern human language Limonga Fatuma on 04 December 2018: this difference is so delicious that I like. Cyrus the Great from Persia on November 25, 2018: the boy under me is not a member of the Persianomurphin Johnson empire on November 25, 2018: this educational segment was really appreciated by Nancy on 20 November 2018: thank you very much. Shabeena USB on November 20, 2018: this is easy to understand thanks Youshamsheid Jutt the November 2018: well explained, thanksbenta on 05 November 2018: I liked the way you pulled out .. Toalalal country .. 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